Chemistry
Ticket Out the Door
Set 7 Chemical Changes

Name _____ Period _____

Skill 7.01 Exercise 1

Classify each of the following changes as chemical of physical

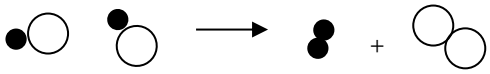
(a) wood turning into paper

(b) food coloring dissolving into water

(c) hydrogen and oxygen forming water

(d)

(e)



(f) $S_2(s) + 2Zn(s) \rightarrow 2ZnS(s)$

(g) $CO_2(s) \rightarrow CO_2(g)$

Skill 7.02 Exercise 1

Classify the following as either a pure substance or mixture:

(a) Gatorade

(b) Rubbing alcohol (isopropyl alcohol)

(c) Gasoline

(d) Tap Water

Skill 7.03 Exercise 1

Refer to the table below to determine whether each of the following mixtures could be classified as heterogeneous or homogeneous.

	Sand	**Salt**	**Sugar**
Ethanol	Insoluble	Insoluble	Soluble
Water	Insoluble	Soluble	Soluble

(a) Ethanol and salt

(b) Ethanol and sugar

(c) Water and sand

(d) Water and sugar

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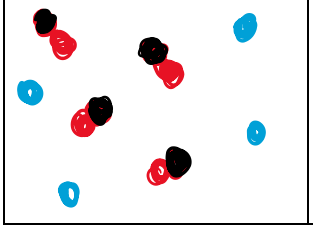
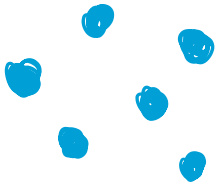
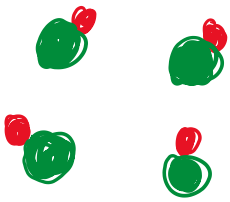
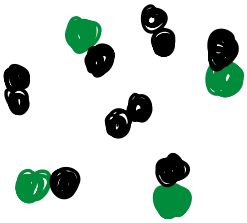
Skill 7.04 Exercise 1

Which of the following are compounds: baking soda ($NaHCO_3$), graphite (C), dry ice (solid CO_2), sodium (Na), Sulfur (S_8), Nitrogen (N_2)

Skill 7.04 Exercise 2

Refer to the illustration below to answer the following

A	B	C	D
			

(a) Which figure or figures best represents a pure substance?

(b) Which figure of figures best represents a single compound?

(c) Which figure or figures best represents a single element?

(d) Which figure or figures best represents a mixture

(e) Which figure of figures best represents a compound and an element

Skill 7.05 Exercise 1

Use the information below to propose a method for separating out a mixture of sand, salt, sugar, and iron.

	Sand	**Salt**	**Sugar**	**Iron**
Ethanol	Insoluble	Insoluble	Soluble	Insoluble
Water	Insoluble	Soluble	Soluble	Insoluble
Attracted to a magnet	No	No	No	Yes

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